OPERATORS INFORMATION
Washbasin lifts

Granberg Interior AB
Box 6112
SE-600 06 Norrköping
SWEDEN

More information:
www.granberg.se

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1. Introduction

We have the pleasure to deliver a Granberg Interior Washbasin lift, an electrically operated lifting and lowering system for new or existing washbasins without cabinets under the washbasin. The main models are:

Only authorized persons may use the Washbasin lift!

Authorization means obligation to read and follow the instructions.

It is very important that you read and understands the instructions before you use the device.
If you have any questions - contact your supplier.

This Instruction manual shall be available for all concerned persons, be kept in a protected place and shall follow the product, if it is moved to another installation site or another house or apartment owner.

Correct use, operation, inspections and maintenance are decisive for efficient and safe work.

2. Declaration of Conformity with EU-directives

This product is CE-marked and is granted to conform to the basic safety and operation requirements, in accordance with de actual Machinery, EMC- and Low voltage Directives. A separate "CE-Declaration of Conformity" is available in section 13.

3. Intended use

The Washbasin lift is intended to vertically lift and lower a washbasin and sometimes even a mirror and lighting to a convenient level. The operation shall be indoors under normal housing conditions regarding temperature, humidity and lighting.

The Washbasin lift, which has electric protection class IP X4, is made for use in humid rooms, but not for rinsing and flushing with water. The hand control unit with spiral cable has protection class IP 65.

It is absolutely forbidden for persons to stay on the washbasin, or to use it for lifting persons. It is also not allowed to use the lift as a support when a person rises up.

	413	414	415	417	418
	230 V / 120 V 345 W / 324 W	230 V / 120 V 345 W / 324 W	230 V / 120 V 345 W / 324 W	230 V / 120 V 345 W / 324 W	230 V / 120 V 345 W / 324 W
	18 mm / s	18 mm / s	18 mm / s	18 mm / s	18 mm / s
	250 mm	250 mm	250 mm	250 mm	250 mm
kg MOTOR	150 kg	150 kg	150 kg	150 kg	150 kg
kg	40 kg*	20 kg*	40 kg*	40 kg*	20 kg
	6 / 1h	6 / 1h	6 / 1h	6 / 1h	6 / 1h

* Distributed load on the washbasin

4.1 Safe use

The Washbasin lift is provided with safety arrangements in order to prevent and avoid damages and accidents. It is however still very important that the operator is well instructed in how to install and operate the Washbasin lift. In the following the Washbasin lift means the lifting machine and the fitted washbasin and possible mirror.

- Only use the Washbasin lift for its intended purpose. (See section 3).
- The operation and use must be made in such way that there is no risk for damages on persons and property.
- The Washbasin lift may only be operated by persons who have read and understood these instructions, and are authorized to use it.
- Be aware of that you as an operator are responsible for that nobody is damaged.
- The Washbasin lift and the work area must be in proper condition. The Washbasin lift must not be used if any fault has appeared which influences the functions or the operation safety. It shall also not be used if it has been repaired, altered or adjusted without permission of a responsible person.
- Make sure that the Washbasin lift is installed on a firm, flat and absolutely vertical wall with sufficient mounting details, enough for the total weight incl. the washbasin, its content, mirror and objects on it.
- The operator shall have a clear view of the hazardous parts of the Washbasin lift and the area around it all the time when operations are taking place.
- Do not touch any part of the lift when operating it. Only press the button for desired motion direction.
- Do not put hands, arms, or any other part of the body or any object under the washbasin when the lift is operated.
- If the mirror is placed behind the lift particular attention must be paid to the risk for collision between the top shelf and the bottom edge of the mirror. (Only applicable to model 807)
- Note! Jamming risk between the Washbasin lift and adjacent cabinets and benches.
- Only stable and securely loaded items may be handled. Mind the tilting risk for objects on the washbasin or shelf, which are unstable, e.g. carelessly piled. If the washbasin is tilt able there is a big risk that objects are tipping over or water from the washbasin will flow out.
- Never let the Washbasin lift touch any adjacent objects.
- Alterations of the Washbasin lift that influence the operational safety or the functions are not allowed.
- Decals and markings must not be removed or made illegible.
- Do not overload the Washbasin lift and make sure that the load distribution is correct.
- It is absolutely forbidden for persons to stay on the washbasin or to use the lift for lifting persons. It is also not allowed to use the lift as a support when a person rises up.
- Use safe and sufficient lifting methods when handling load to and from the Washbasin lift. In particular beware when handling heavy items, and goods with hazardous content or with sharp corners and edges.
- The Washbasin lift shall regularly, once a year, be inspected in order to prevent accidents.
- Applicable Building and Safe use Regulations must be complied with.
- Do not use the Washbasin lift as a lifting jack, e.g. for lifting things from the floor.
- The machine shall no be in direct contact with food.
- Do not use the Washbasin lift in a potentially explosive environment.
- When the operation is in a public location, particularly when children can enter the work area, the operator shall make satisfactory arrangements to prevent persons from entering the hazardous area when the lift is being operated, or it has been lowered from the parking position, e.g. by means of blocking the work area or by means of adding protection devices.
- During inspections, service and repair work there shall be no load on the washbasin lift.
  The most common functions is reached behind the mounting plate.
- Competent persons only must carry out installation, service and repair works.
- Only Granberg original spare parts shall be used when replacing any parts. Our warranty commitment can otherwise be invalidated.

4.2 Load distribution and side forces

Basic loading requirements:
*** 100 % of the rated load distributed over the entire washbasin surface, with the centre of gravity at the washbasin top.**
*** Horizontal forces are not allowed.**

Horizontal forces can appear, for example, when pressing onto the Washbasin.
It is difficult to estimate the size of the actual horizontal force, so utmost care must always be taken.

Further to the incorporated safety arrangements additional can safety actions may be required on or at the Washbasin lift.
Discuss suitable actions with your Granberg representative or with the health and safety inspection.

We recommend that a Risk assessment in accordance with the Machinery Directive shall be made for the actual working conditions.
If the owner fits accessories, contact Granberg to get approval for the loading conditions.

4.3 Actions after use

The Washbasin lift shall after use be left in its current position.
Switch off the main switch and lock it in closed position, if unauthorized use can occur.
To prevent unauthorized use can it is also possible to place the control device in a lockable cabinet.

4.5 Cleaning

In its use in a bathroom environment the mechanism can be exposed to dirt. As the Washbasin lift contains electrical components it is very important that cleaning is made according this instruction.

WARNING!
*** The Washbasin lift must absolutely not be connected to the electric supply when cleaning is carried out.**
*** The Washbasin lift must absolutely not be rinsed with water! (Not applicable for the washbasin).**

Care instructions:
Clean with lukewarm water and a non-scratching detergent containing soap or similar. Use a Wettex swab or similar. After cleaning the surfaces shall be dried to avoid lime deposits. Scratching detergents or tools e.g. steel wool may not be used.
The Washbasin, mirror and other equipment shall be cleaned and maintained acc. to the manufacturers instructions.

4.6 Maintenance

The Washbasin lift is maintenance-free. Greasing and other actions are made during the manufacturing for the lifetime of the lift. From safety point of view however some components shall be inspected each year.

* Inspections, service and repair work shall be made by competent persons.
* Remove any objects from the washbasin before maintenance and repair works are made.

1. Run the lift down and up all the way to respective end position. Check that it runs freely without trapping risks and jarring sounds. Check that it stops and stays in the lower respective upper positions.

2. Check that the cables are not chafed, squeezed or breaking and that there is no risk for damages.

3. Check that the wall-, washbasin attachments are in proper order. If the machine is inclined adjustment can be made according to the installation instructions.

Accomplished inspections and repair works shall be specified in the service records in section 8.

5. Instructions for recycling

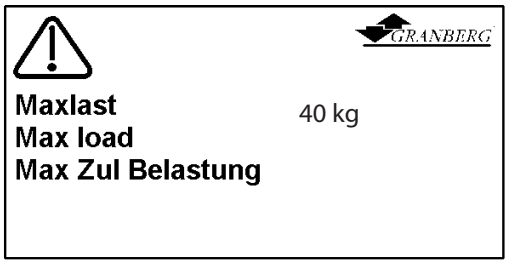
When the Washbasin lift is reused make sure that safety trip panel is the right size.

We recommend the machine to be sent to Granberg or to the Granberg distributor to get this done.

The machine is manufactured from re-usable materials or from materials that can be recycled.

6. Decals

Two decals are included in the instruction manual envelope, and these must be placed on the washbasin in full view for the user.



7. Warranty

In accordance with the warranty conditions Orgalime S 2000 the manufacturer will replace or repair all faults which depend on manufacturing or material faults and which appear within twenty-four (24) months from the delivery. For further details about the conditions, see Orgalime S 2000.
Note!
Alternative warranty conditions may apply. See the Order Acknowledgement for actual conditions.

The warranty is only valid if inspections and maintenance is carried out in accordance with the instructions. This warranty does not cover the cost of normal maintenance, settings or scheduled adjustments as specified in the instructions. Also the labour costs for such actions are not covered by the warranty

Damages caused by misuse or incorrect operation of the equipment means that the warranty would expire.

Before any warranty work is commenced by a customer Granberg must be contacted for analysis and approval. We do not accept to carry any warranty costs if the repair work has started without an agreement by us.

When returning parts always quote the details shown on the manufacturer's plate, i.e. Type, manufacturing number, year and describe the operating conditions for the machine.

Remember to quote name, address and telephone number for the appropriate contact person.

8. Service and Maintenance Records

Type and model:_____ Manufacturing No.:_____

Delivery date:_____

Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____	Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____	Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____
Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____	Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____	Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____
Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____	Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____	Service & maintenance Date:_____ Sign._____ Remarks:_____ _____ _____ _____

9. Fault finding

The Washbasin lift is designed and tested to achieve optimum operation reliability and long life, provided that the operation, maintenance and inspections are carried out in accordance with the prescribed instructions. If in spite of this a fault appears you can get guidance about what to do according to the fault finding list below.

Remove the load from the basin before fault finding and repair work is carried out.
Fault finding, service and repair work shall made by competent persons only.

If any problem remains after you have taken actions in accordance with the list below you must contact a competent technician or you supplier.

Problem	Actions
The Washbasin lift does not move when a control signal is given	Check that the fuse for the mains feed is not damaged
	Check that the mains plug is connected.
	Take off the mounting plate to reach the motor and control box. Check that the green light on the control box is lightning. This indicates that there is power to the control box.
	If the lift still does not move contact an authorized technician and/or your supplier. This shall as first action, after above check points, check that all cables are connected and undamaged, and that the green light on the control box is lighting.
	If it is not lighting the control box is probably defect. Order a new unit from Granberg.
The safety switch is not working (accessories)	Check that the cable from the safety switch is connected.
	If the lifting mechanism doesn't move after the steps above, contact your supplier.

When repair work has been carried out on the Washbasin lift a complete functional test with full load shall be made, before it is taken into use.

10. Functional test

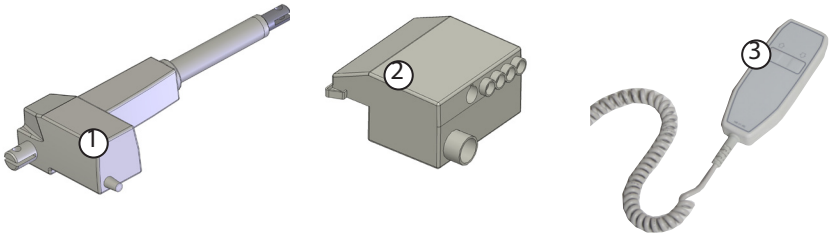
After installation a complete functional test with full load shall be made:
Run the Washbasin lift down and up all the way to respectively end position. Check that it moves freely, without hindrance and jarring sounds. Check that no cables or hoses are jammed and that the water and sewer hoses are properly fixed to the wall.

Notice!
Raise the lift to the end position to check that the hoses are long enough.

11. Spare parts list

If any component does not work or has broken, contact your supplier.
Only Granberg original spare parts must be used when replacing any parts. Our warranty commitment may otherwise be invalidated.

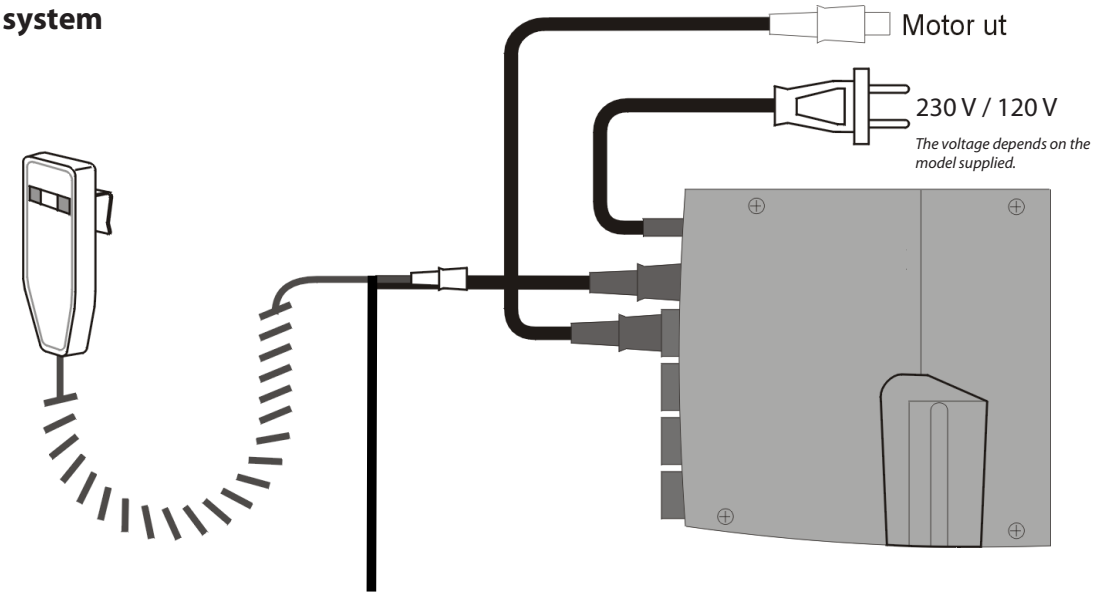
Pos:	Description:
1	Motor
2	Control box
3	Push button device with spiral cable



Return of spare parts:
Contact Granberg prior to any return of parts.
Do not return any parts that have been worn out during normal operation or accidentally damaged. Only return worn or damaged parts if it is considered that the fault is covered by our warranty conditions. In such cases, return the parts without delay, otherwise the right to replacement may be lost.

When ordering spare parts always quote the manufacturing number and type.

12. Electric system



Safety switch (accessories)

13. CE-DECLARATION OF CONFORMITY

(According Machinery Directive 2006/42/EG, Annexe 2A)

Manufacturer: Granberg Interior AB
Box 6112,
SE-600 06 NORRKÖPING, Sweden
Tel. +46-11-19 77 50
Fax +46-11-12 76 76

declares under sole responsibility that the product:

Space for machine plate

to which this declaration relates, is in manufactured in conformity with the following harmonised documents, following the provisions of Machinery Directive 2006/42/EG, the Low Voltage Directive 2006/95/EG and the EMC Directive 2004/108/EG.

It also conforms to the following harmonised standards:

EN 60204-1	Safety of Machinery - Electrical Equipment of Machines -General Requirements
EN ISO 13857:2008	Safety distances to prevent hazard zones being reached by upper and lower limbs

Norrköping, 2012-12-10
Granberg Interior AB

Tobias Granberg
Managing Director

GRANBERG®

Box 6112 SE-600 06, Norrköping Sweden
Tel: +46 (0)11-19 77 50 Fax: +46 (0)11-12 76 76
E-mail: info@granberg.se - Internet: www.granberg.se